



CITY OF LODI COUNCIL COMMUNICATION

AGENDA TITLE: Adopt Resolution Approving the Purchase of Padmount Transformers from HEES Enterprises, Inc. of Astoria, Oregon and Howard Industries, Inc. of Laurel, Mississippi (\$214,197.27)

MEETING DATE: February 16, 2011

PREPARED BY: Electric Utility Director

RECOMMENDED ACTION: Adopt a resolution approving the purchase of padmount transformers from HEES Enterprises, Inc. of Astoria, Ore. and Howard Industries, Inc. of Laurel, Miss. (\$214,197.27).

BACKGROUND INFORMATION: On October 6, 2010, the City Council authorized the advertisement of bids to procure padmount transformers to maintain inventory for replacement of damaged/old transformers in the distribution system.

On January 12, 2011, bids were opened with three suppliers submitting proposals, two of which were deemed responsive. Life-cycle costs (total purchase price plus cost of estimated power loss during the projected life of the transformer) were evaluated as shown on the attached summary. HEES Enterprises, Inc. of Astoria, Ore. and Howard Industries, Inc. of Laurel, Miss. submitted responsive bids with the lowest life-cycle cost as shown below:

12 each 37.5kVA, 1-Phase, 240/120V	HEES Enterprises, Inc.	\$18,778.95
12 each 75kVA, 1-Phase, 240/120V	HEES Enterprises, Inc.	\$26,582.85
3 each 75kVA, 3-Phase, 208/120V	Howard Industries, Inc.	\$13,046.74
2 each 112.5kVA, 3-Phase, 480/277V	Howard Industries, Inc.	\$ 9,874.50
2 each 225kVA, 3-Phase, 480/277V	HEES Enterprises, Inc.	\$14,816.10
2 each 300kVA, 3-Phase, 480/277V	HEES Enterprises, Inc.	\$15,923.18
2 each 1000kVA, 3-Phase, 480/277V	HEES Enterprises, Inc.	\$32,829.45
4 each 1500kVA, 3-Phase, 480/277V	HEES Enterprises, Inc.	\$82,345.50

FISCAL IMPACT: Procurement cost is \$214,197.27. Life-cycle cost is \$371,266.01.

FUNDING: Included in FY2010/11 Account No. 160.1496


 Jordan Ayers
 Deputy City Manager/Internal Services Director


 Elizabeth A. Kirkley
 Electric Utility Director

PREPARED BY: Weldat Haile, Senior Power Engineer

EAK/WH/DB/lst

APPROVED: 
 Konradt Bartlam, City Manager

Transformer Bid Evaluation					Bid Opening: January 12, 2011								
Padmount				Tax (factor):	1.0875	Primary Windings:			Three-Phase, 12000 Volt, 60Hz, Delta Connected				
January 25, 2011				No Load Loss \$/watt:	3.75				Single-Phase, 12000 Grd. Wye/6930 Volt, 60Hz				
				Load Loss \$/watt:	1.25								
Bid Item 1: 37.5 kVA, 240/120 Volt, Single Phase Pad						Number of units:		12			28	>1.5	
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %	
Hees Enterprises Inc. (Ermco Transformers)	1,439.00	17,268.00	18,778.95	88	389	3,960.00	5,835.00	9,795.00	28,573.95	8	28	1.800	
Howard Industries Inc.	1,504.00	18,048.00	19,627.20	90	397	4,050.00	5,955.00	10,005.00	29,632.20	6-8	32	2.300	E
CG Power System USA Inc.	No Offer												
Bid Item 2: 75 kVA, 240/120 Volt, Single Phase Pad,						Number of units:		12			28	>1.8	
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %	
Hees Enterprises Inc. (Ermco Transformers)	2,037.00	24,444.00	26,582.85	135	686	6,075.00	10,290.00	16,365.00	42,947.85	8	28	2.000	
Howard Industries Inc.	2,231.00	26,772.00	29,114.55	150	674	6,750.00	10,110.00	16,860.00	45,974.55	6-8	32	2.500	E
CG Power System USA Inc.	No Offer												
Bid Item 3: 75 kVA, 208/120 Volt, Three Phase Pad,						Number of units:		3			65	>1.8	
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %	
Hees Enterprises, Inc. (Ermco Transformers)	4,955.00	14,865.00	16,165.69	137	1112	1,541.25	4,170.00	5,711.25	21,876.94	8	49	2.700	
Howard Industries Inc.	3,999.00	11,997.00	13,046.74	177	984	1,991.25	3,690.00	5,681.25	18,727.99	6-8	45	2.300	
CG Power System USA Inc.	3,645.00	10,935.00	11,891.81	196	1002	2,205.00	3,757.50	5,962.50	17,854.31	6-8	52.1	2.280	E
Bid Item 4: 112.5 kVA, 480Y/277 Volt, Three Phase Pad						Number of units:		2			65	>2.0	
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %	
Hees Enterprises Inc.(Ermco Transformers)	5,130.00	10,260.00	11,157.75	262	1046	1,965.00	2,615.00	4,580.00	15,737.75	8	49	4.000	
Howard Industries Inc.	4,540.00	9,080.00	9,874.50	267	1194	2,002.50	2,985.00	4,987.50	14,862.00	6-8	45	2.400	
CG Power System USA Inc.	4,353.00	8,706.00	9,467.78	293	1190	2,197.50	2,975.00	5,172.50	14,640.28	6-8	52.1	2.280	E
Bid Item 5: 225 kVA, 480Y/120 Volt, Three Phase Pad,						Number of units:		2			65	>3.5	
02-16-11 DR Padmount - Attach.xls Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %	

Transformer Bid Evaluation					Bid Opening: January 12, 2011							
Padmount				Tax (factor):	1.0875	Primary Windings:			Three-Phase, 12000 Volt, 60Hz, Delta Connected			
				No Load Loss \$/watt:	3.75				Single-Phase, 12000 Grd. Wye/6930 Volt, 60Hz			
January 25, 2011				Load Loss \$/watt:	1.25							
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Hees Enterprises Inc.(Ermco Transformers)	6,812.00	13,624.00	14,816.10	443	1644	3,322.50	4,110.00	7,432.50	22,248.60	8	49	4.800
Howard Industries Inc.	7,380.00	14,760.00	16,051.50	520	1716	3,900.00	4,290.00	8,190.00	24,241.50	6-8	55	5.100
CG Power System USA Inc.	5839.00	11,678.00	12,699.83	407	2416	3,052.50	6,040.00	9,092.50	21,792.33	6-8	52.1	3.580 E
Bid Item 6: 300kVA, 480Y/277 Volt, Three Phase Pad,						Number of units:		2			65	>3.5
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %
Hees Enterprises Inc.(Ermco Transformers)	7,321.00	14,642.00	15,923.18	464	2531	3,480.00	6,327.50	9,807.50	25,730.68	8	49	4.500
Howard Industries Inc.	8,716.00	17,432.00	18,957.30	570	2430	4,275.00	6,075.00	10,350.00	29,307.30	6-8	56	4.300
CG Power System USA Inc.	7,435.00	14,870.00	16,171.13	529	2679	3,967.50	6,697.50	10,665.00	26,836.13	6-8	61.6	3.550 E
Bid Item 7: 1000kVA, 480Y/277 Volt, Three Phase Pad,						Number of units:		2			90	>5.3.0
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %
Hees Enterprises Inc.(Ermco Transformers)	15,094.00	30,188.00	32,829.45	1188	7196	8,910.00	17,990.00	26,900.00	59,729.45	8	63	5.800
Howard Industries Inc.	18,747.00	37,494.00	40,774.73	1242	7995	9,315.00	19,987.50	29,302.50	70,077.23	6-8	75	5.900 E
CG Power System USA Inc.	14,838.00	29,676.00	32,272.65	1179	8437	8,842.50	21,092.50	29,935.00	62,207.65	6-8	72.1	5.750 E
Bid Item 8: 1500kVA, 480Y/277 Volt, Three Phase Pad,						Number of units:		4			90	>5.3
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %
Hees Enterprises Inc.(Ermco Transformers)	18,930.00	75,720.00	82,345.50	1557	10549	23,355.00	52,745.00	76,100.00	158,445.50	8	63	6.000
Howard Industries Inc.	23,423.00	93,692.00	101,890.05	1818	10383	27,270.00	51,915.00	79,185.00	181,075.05	6-8	71	5.750
CG Power System USA Inc.	18,937.00	75,748.00	82,375.95	1493	11985	22,395.00	59,925.00	82,320.00	164,695.95	6-8	74.1	5.750 E

Transformer Bid Evaluation						Bid Opening:	January 12, 2011						
Padmount				Tax (factor):	1.0875		Primary Windings:	Three-Phase, 12000 Volt, 60Hz, Delta Connected					
				No Load Loss \$/watt:	3.75			Single-Phase, 12000 Grd. Wye/6930 Volt, 60Hz					
January 25, 2011				Load Loss \$/watt:	1.25								
Total Price Plus Tax for the Bids of Transformers				214,197.26									
<i>Prepared by: Weldat Haile</i>				BSU Account No.	160.1496			total lifecycle cost =	371,266.01				
<i>Sen. Power Engineer</i>													

RESOLUTION NO. 2011-16

A RESOLUTION OF THE LODI CITY COUNCIL
AUTHORIZING THE PURCHASE OF PADMOUNT
TRANSFORMERS FROM HEES ENTERPRISES,
INC., OF ASTORIA, OREGON, AND HOWARD
INDUSTRIES, INC., OF LAUREL, MISSISSIPPI

WHEREAS, in answer to notice duly published in accordance with law and the order of this City Council, sealed bids were received and publicly opened on January 12, 2011, at 11:00 a.m., for the purchase of padmount transformers, described in the specifications therefore approved by the City Council on October 6, 2010; and

WHEREAS, said bids have been compared as to life-cycle costs, checked, and tabulated as shown on Exhibit A attached; and

WHEREAS, the bids meeting the City's specifications with the lowest estimated life-cycle costs are shown below:

12 each 37.5kVA, 1-Phase 120/240V	HEES Enterprises, Inc	\$18,778.95
12 each 75kVA, 1-Phase, 120/240	HEES Enterprises, Inc.	\$26,582.86
3 each 75kVA, 3-Phase, 208/120V	Howard Industries, Inc.	\$13,046.74
2 each 112.5kVA, 3-Phase, 480/277V	Howard Industries, Inc	\$ 9,874.50
2 each 225kVA, 3-Phase, 480/277V	HEES Enterprises, Inc	\$14,816.10
2 each 300kVA, 3-Phase, 480/277V	HEES Enterprises, Inc	\$15,923.18
2 each 1000kVA, 3-Phase, 480/277V	HEES Enterprises, Inc	\$32,829.45
4 each 1500kVA, 3-Phase, 480/277V	HEES Enterprises, Inc.	\$82,345.50

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council does hereby authorize the purchase of padmount transformers, as shown above, in the amount of \$214,197.27.

Dated: February 16, 2011

I hereby certify that Resolution No. 2011-16 was passed and adopted by the City Council of the City of Lodi in a regular meeting held February 16, 2011, by the following vote:

AYES: COUNCIL MEMBERS – Hansen, Katzakian, Mounce, Nakanishi, and Mayor Johnson

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

ABSTAIN: COUNCIL MEMBERS – None



RANDI JOHL
City Clerk

EXHIBIT A

Transformer Bid Evaluation				Bid Opening: January 12, 2011								
Padmount				Tax (factor):	1.0875	Primary Windings: Three-Phase, 12000 Volt, 60Hz, Delta Connected						
January 25, 2011				No Load Loss \$/watt:	3.75	Single-Phase, 12000 Grd. Wye/6930 Volt, 60Hz						
				Load Loss \$/watt:	1.25							
Bid Item 1: 37.5 kVA, 240/120 Volt, Single Phase Pad				Number of units:				12	28 >1.5			
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Hees Enterprises Inc. (Ermco Transformers)	1,439.00	17,268.00	18,778.95	88	389	3,960.00	5,835.00	9,795.00	28,573.95	8	28	1.800
Howard Industries Inc.	1,504.00	18,048.00	19,627.20	90	397	4,050.00	5,955.00	10,005.00	29,632.20	6-8	32	2.300 E
CG Power System USA Inc.	No Offer											
Bid Item 2: 75 kVA, 240/120 Volt, Single Phase Pad,				Number of units:				12	28 >1.8			
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
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Howard Industries Inc.	2,231.00	26,772.00	29,114.55	150	674	6,750.00	10,110.00	16,860.00	45,974.55	6-8	32	2.500 E
CG Power System USA Inc.	No Offer											
Bid Item 3: 75 kVA, 208/120 Volt, Three Phase Pad,				Number of units:				3	65 >1.8			
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Hees Enterprises, Inc (Ermco Transformers)	4,955.00	14,865.00	16,165.69	137	1112	1,541.25	4,170.00	5,711.25	21,876.94	8	49	2700
Howard Industries Inc	3,999.00	11,997.00	13,046.74	177	984	1,991.25	3,690.00	5,681.25	18,727.99	6-8	45	2300
CG Power System USA Inc	3,645.00	10,935.00	11,891.81	196	1002	2,205.00	3,757.50	5,962.50	17,854.31	6-8	52.1	2280 E
Bid Item 4: 112.5 kVA, 480Y/277 Volt, Three Phase Pad				Number of units:				2	65 >2.0			
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	cost \$	(weeks)	(inches)	%
Hees Enterprises Inc (Ermco Transformers)	5,130.00	10,260.00	11,157.75	262	1046	1,965.00	2,615.00	4,580.00	15,737.75	8	49	4000
Howard Industries Inc	4,540.00	9,080.00	9,874.50	267	1194	2,002.50	2,985.00	4,987.50	14,862.00	6-8	45	2400
CG Power System USA Inc	4,353.00	8,706.00	9,467.78	293	1190	2,197.50	2,975.00	5,172.50	14,640.28	6-8	52.1	2280 E
Bid Item 5: 225 kVA, 480Y/120 Volt, Three Phase Pad,				Number of units:				2	65 >3.5			
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	cost \$	(weeks)	(inches)	%

Padmount - Attach x1

Transformer Bid Evaluation				Bid Opening: January 12, 2011									
Padmount				Tax (factor): 1.0875		Primary Windings:		Three-Phase, 12000 Volt, 60Hz, Delta Connected					
January 25, 2011				No Load Loss \$/watt: 3.75				Single-Phase, 12000 Grd. Wye/6930 Volt, 60Hz					
				Load Loss \$/watt: 1.25									
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CG Power System USA Inc.	5839.00	11,678.00	12,699.83	407	2416	3,052.50	6,040.00	9,092.50	21,792.33	6-8	52.1	3.580 E	
Bid Item 6: 300kVA, 480Y/277 Volt, Three Phase Pad,				Number of units: 2								65	>3.5
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %	
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Bid Item 7: 1000kVA, 480Y/277 Volt, Three Phase Pad,				Number of units: 2								90	>5.3.0
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %	
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Bid Item 8: 1500kVA, 480Y/277 Volt, Three Phase Pad,				Number of units: 4								90	>5.3
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Impedance %	
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Prepared by: Weldat Haile		BSU Account No.	160.1496			total lifecycle cost =	371,266.01				
Sen. Power Engineer											